Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block \_\_\_\_\_\_\_\_\_\_\_

**What is the structure of the Earth’s Atmosphere Virtual Lab**

Click on the link in order to get to website. Read the summary to the left first. Please follow directions in summary. Make sure you use earphones when clicking on the show phenomenon button.

<http://www.glencoe.com/sites/common_assets/science/virtual_labs/ES14/ES14.html>

**Data Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Altitude**  **(km)** | **Density**  **(% of Sea Level Density)** | **Pressure**  **(Pa)** | **Temperature**  **(C)** |
| **0** |  |  |  |
| **5** |  |  |  |
| **10** |  |  |  |
| **25** |  |  |  |
| **50** |  |  |  |
| **60** |  |  |  |
| **75** |  |  |  |
| **100** |  |  |  |
| **150** |  |  |  |
| **200** |  |  |  |
| **400** |  |  |  |

**Journal Questions**

1. Which layer of the atmosphere do you live in?
2. What kinds of meteorological phenomena can be found in this layer?
3. If a rocket was launched to a height of 210 kilometers above sea level, which layer of the atmosphere would it rise to?
4. What kinds of meteorological and astronomical phenomena might the rocket encounter in that layer?
5. What is the ozone layer?
6. In which layer in the atmosphere is the ozone found?
7. What is the importance of the ozone layer to life on Earth?
8. Describe the pattern of air density changes within layers of the atmosphere
9. Describe the pattern of air pressure changes within layers of the atmosphere.
10. What is the relationship between air density and air pressure?
11. Describe the pattern of temperature changes within the layers of the atmosphere
12. Why do you think temperature changes follow this unique pattern?